

New Approach for Preventing Unauthorized Access and Key Generation from Facial Data

Dr. Kamini Solanki
Assistant Professor,
Faculty of IT & CS, Parul University
Vadodara, India

Abstract: Face Recognition is used for real time application and demanded application. This paper represents two modules. In first module, face recognition is done by combining local binary pattern (LBP) and principal component analysis (PCA) in different way. Proposed algorithm is used for better recognition rate. PCA is used for dimension reduction of image and LBP is used to describe the texture of image data. So hybrid approach will increase the recognition rate of face and also decreased false match rate but there is no difference in verification time. So it is suitable for real time application. We compared proposed method with both PCA and LBP to compute these changes. In case of execution time, there is no difference between of existing and proposed method. In Second module, key generation from feature vectors of proposed algorithm for the purpose of the security. According to the result proposed algorithm generate fastest key compared to the existing key.

[For Full Article Click here](#)

Key words: Facial image representation, LBP, PCA, Recognition rate, False match rate, Key Generation, Encryption, Decryption